

59045 Miniature PCB Mountable Reed Switch + 57045 Actuator





Agency Approvals

Agency	Agency File Number			
c RL [°] us	E61760 E471070			
(Ēx)	DEMKO 14 ATEX 1393U ເ⊋ II 3 G Ex nC IIC Gc			

Note: Contact Littelfuse for specific agency approval ratings

Description

The 59045 is a miniature PCB-mountable reed switch, 17.78mm x 4.32mm x 3.3mm (0.700" x 0.170" x 0.130") with a normally open contact. It has moulded stand-offs to allow board washing. It is capable of switching up to 200Vdc at 10W. It functions best with the matching actuator 57045-000.

Note: The 57045 Actuator is sold separately.

Features

- Two-part magnetically operated proximity switch
- Normally open contact configuration
 Moulded stand-offs to allow
- board washingWave solder capable

Benefits

- Mounts directly into printed circuit board
- No standby power requirement
- Operates through non-ferrous materials such as wood, plastic or aluminium

Applications

- Position and Limit Sensing
- Security System Switch

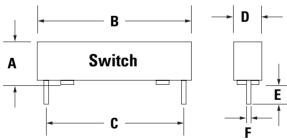
- Certified for use in North American Hazardous Locations: Class I, Division 2 and Zone 2
- RoHS compliant

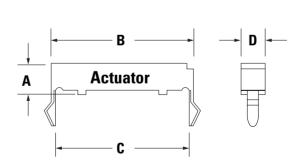
Door Switch

 Hermetically sealed, magnetically operated contacts continue to operate long after optical and other technologies fail due to contamination

Dimensions

Dimensions in mm (inch)





	A	B	C	D	E	F
	Max.	Max.	±0.25 (.010)	Max.	±0.38 (.015)	Nom.
57045 Actuator	4.32 (.170)	17.78 (.700)	*	3.3 (.130)	-	-
59045 Switch	4.32	17.78	15.24	3.3	3.3	0.4699
	(.170)	(.700)	(.600)	(.130)	(.130)	(.0185") Dia.

* Mounting: 1.57 (.062) thick board, 3.17 (.125) holes on 13.72mm (.540) centerline.

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Electrical Ratings

Contact Type			Normally Open
Switch Type			1
Contact Rating ¹		VA/Watt - max.	10
Voltage ³	Switching ² Breakdown ⁴	Vdc - max. Vac - max. Vdc - min.	200 140 250
Current ³	Switching ² Carry	Adc - max. Aac - max. Adc - max.	0.5 0.35 1.2
Resistance	Contact, Initial Insulation	Ω - max. Ω - min.	0.2 10 ¹⁰
Capacitance	Contact	pF - typ.	0.3
Temperature	Operating	°C	-40 to +105

Product Characteristics

Operate Time ⁵		ms - max.	1.0
Release Time ⁵		ms - max.	1.0
Shock ⁶	11ms ½ sine	G - max.	100
Vibration ⁶	50-2000 Hz	G - max.	30

Notes:

1. Contact rating - Product of the switching voltage and current should never exceed the wattage rating. Contact Littelfuse for additional load/life information.

2. When switching inductive and/or capacitive loads, the effects of transient voltages and/or currents should be considered. Refer to Application Notes AN108A and AN107 for details.

3. Electrical Load Life Expectancy - Contact Littelfuse with voltage, current values along with type of load.

4. Breakdown Voltage - per MIL-STD-202, Method 301.

5. Operate (including bounce)/Release Time - per EIA/NARM RS-421-A, diode suppressed coil (Coil II).

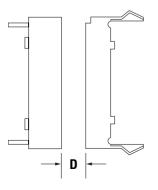
6. Shock and Vibration - per EIA/NARM RS-421-A and MIL-STD-202.

Sensitivity Options (Using 57045 Actuator)

	Select Option S		т		U		
	Switch Type	Pull-In AT Range	Activate Distance, D mm (inch) Average	Pull-In AT Range	Activate Distance, D mm (inch) Average	Pull-In AT Range	Activate Distance, D mm (inch) Average
1	Normally Open	15-20	5.0 (.196)	20-25	4.3 (.170)	25-30	3.8 (.150)

Note

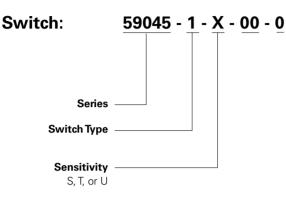
Pull-In Range - Contact Littelfuse for narrower AT ranges available. These AT values are the before molding and modification AT of the 59045.





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Part Numbering System

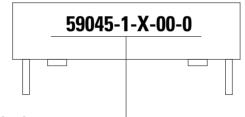


Actuator: 57045 - 000

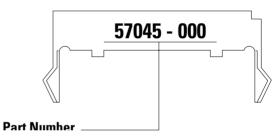
Note: The 57045 Actuator is sold separately.

Product Marking

Switch:



Actuator:



Part Number –

Packaging

Packaging Option	Packaging Specification	Quantity	Quantity and Packaging Code	Taping Width
Bulk	Bulk	200/Box MOQ = 1000pcs	N/A	N/A

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